Pyramix
DIGITAL AUDIO WORKSTATION
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Pyramix 7.0 Release Notes

Installation

Please consult the Installation Guide located on the Pyramix Installation Media (CD/DVD-ROM or USB Memory card) for details of the hardware and software installation procedure and Authorization Key registration process.

To install the Mykerinos board, TURN YOUR COMPUTER OFF (shut down then switch the power off). Next plug the Mykerinos board into one of the PCI/PCI-Express bus slots on your computer and turn the power back on.

Additional installation step for multi-board application

In order to enable multi-board operation, all Mykerinos cards in your PC have to be connected together using a special HDTDM ribbon cable. This cable has to be plugged into the multi-pin connectors located on the top edge of the I/O daughter cards. Please contact your Merging Technologies Sales Partner for information on how to order this HDTDM ribbon cable.

- To install the Pyramix Virtual Studio software insert the Pyramix Virtual Studio Installation Media - the installation program should auto-start.
- To install MassCore launch the MT Security Settings, go to the MassCore page and install the MassCore RunTime (a MassCore base key is required).

Updates

Please check our Web site **http://www.merging.com** periodically for information, patches and updates.

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Pyramix V7 Highlights

Please find below a list of major Pyramix 7 new features and improvements.
More details about new features and improvements in the following pages.
For a complete description and explanation please read the User Manual.

New Features

MassCore™

- Support for Windows 7 (32 bit)
- SMP Multi-core support (optional Key)

New libraries & Media Manager database structure

- Consumes less memory
- New management structure
- New options
- New Column management

New Pyramix GUI

- New Track headers layout
- New Timeline clip display
- New Toolbar items & Display options

New Search Tool

- Fast and efficient
- Search results library & Search History

New SRC with ultimate quality

- Ultimate quality
- 64 bits float internal resolution
- Available from Media Manager, CD Generator and Mixdown

New Final Check Loudness Meter (optional)

- Plugin dedicated to precision metering

New VoiCode plug-in (optional)

- Merging's professional Mono to Stereo upmix plug-in

Rewire Support

- Propeller Head "Rewire Mixer Application" support
- Transport, Bars & Beats support through Rewire client and Pyramix

Major Automation Overhaul

- New Automation Sub Tracks
- New Bus Automation Tracks
- New management workflow for Automation tracks

New Bars & Beats Toolbar

- New Bars & Beats counters
- Multiple options and Signature now available

Sony protocol Support over IP

- Pyramix and VCube can now be synchronized through LAN

Improvements

Faster Save - Jog Improvements - Automation & Envelop Improvements - Half Waveforms display - Libraries Improvements - New Timeline Layout display Settings – Editing Improvements - Toolbars & Markers improvements - FLAC decoding support - And more

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Pyramix v7.0 Install Procedure

Additional details on the System Requirements are available in the Pyramix V7 Installation Guide.

STEP 1:
Pyramix v7.0 is compatible with the following OS

- Windows 7 Professional (32bit)
- Windows Vista Business (32bit)
- Windows XP-SP3 (32bit)

STEP 2:
Users that are running Pyramix v6.2x can perform an upgrade to Pyramix v7.0 but Merging strongly recommends that you remove the currently installed Pyramix version prior to installing Pyramix v7.0. Prior to installing the Pyramix 7.0 version, we recommend that you back up your Projects and save your settings, keyboard shortcuts, templates, etc..

1. Go to Windows Control Panel
2. Select "Add or Remove Programs" (XP) / "Programs and Features" (Vista & Windows 7)
3. Remove the installed Pyramix version (Pyramix 5.X or 6.2.X versions)
4. Reboot your system afterwards

STEP 3:
MassCore users must remove the present MassCore runtime.

1. From the Control Panel access the Windows "Add or Remove Programs" (XP) / "Programs and Features" (Vista & Windows 7)
2. Select "Interval Zero RTX runtime" and Remove it
3. Make sure that you perform a Reboot afterwards.

STEP 4:
Install Pyramix 7.0

1. Run the Pyramix 7.0 installer
2. If asked to install Uncertified Microsoft Drivers please continue and confirm the install authorization (do not use Wizard automatic detection).
3. Reboot your System

Warning for Windows XP users: Due to some new installer requirements you will have to update to XP-SP3 (with latest updates) in order to install Pyramix v7.0.

STEP 5:
Enter your V7.0 keys

1. Launch MT Security Settings from Windows Start>Control Panel>MT Security Settings
2. Enter your Pyramix v7.0 Keys

STEP 6:
MassCore users will have to install the new MassCore Runtime

1. In MT Security Settings go to the MassCore Tab and install the MassCore Runtime
2. Close MT Security
3. Reboot your system
4. Select the "MassCore" boot entry line at Windows Start Up

STEP 7:
For users with Pyramix and VCube installed on the same system, it is mandatory that you upgrade to VCube 3.0 to go along side this Pyramix v7.0

Note: A MTCleanUp utility is available through Merging's Support for those having problems with their installalation.

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V7.0 New Features

MassCore support under Windows 7 OS

- Note that Pyramix only Supports 32 bit OS (Windows 7 – Vista - Windows XP-SP3)

MassCore multi-core support option

- Option only available with MassCore SMP key
- The key will enable the VS3 Control Panel option for Core allocation, to enhance the MassCore engine performance.
- Slider allows the user to chose the repartitions of Cores
- Merging recommends that you allocate at least 2 Cores for Windows (with Quad Core or i7 configurations).
- Current MassCore version allows up to 8 Core allocation

New Libraries

- New improved Library structure
    - Consume less memory due to new Libraries Database structure (MT3346)
    - A default Database Location path can be set under Settings>Application>Location>Default Database Location. Otherwise the database path will be C:\Documents and Settings\<User Name>\Application Data\Merging Technologies\Pyramix.
      Warning: For better performance we recommend that you move the Database location on your fastest system Drive (e.g. 7200rpm Disk recommended and not necessarily C:\OS default drive, as a drive with less activity could be performing better)
    - You can clear the History of the Media Manager Database entries from the Media Manager. Under the menu Media Folder
    - Check also that the Fade Library Location is valid: Settings > All Settings > Application Editing : Fade Library Location
    - Libraries from previous releases will be converted at the first opening and we will preserve the older libraries version as a .pml.6xx file.
    - Warning: Library opening will take longer the first time a library is opened under V7.0 due to the conversion to the new library format
    - Warning: Due to the Library format changes if downgrading to a Previous Pyramix version (e.g. v6.x) the v7.0 Library format will not be compatible. The user will have to rename its older .pml.6xx files as a .pml in order to re-open the previous backed up libraries.
      You cannot save to older library version.
- New Columns settings from the Library/Options/Library (MT2284)
    - Rearranging Columns:
      Columns present in Library, Media Management and Search Results frames can be rearranged by simply clicking and dragging the column headers.
    - Reordering Columns:
      Clicking on a column header does two things on Columns where this is appropriate. It orders all Library entries according to the numerical or alphabetical order of that Column and it toggles that order between Ascending and Descending
    - 3 options are available to set columns set:
        - Apply to Folder: Only locally on the current folder.
        - Apply to Library: Apply to all folders ONLY IN CURRENT LIBRARY
        - Set as default: All subsequently folders will be created with this set. (Also apply set to root).
    - With these 3 actions the column sizes are re-adjusted to optimal width and the current folder display is updated after a change in Options

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New Pyramix GUI layout

- New menus:
  - View > Scales / ToolBars > Show/Hide All ToolBars
  - View > Scales / ToolBars > Show/Hide Bars & Beats Grids (timeline grid only)
  - Edit > Automation > Editing (see Automation Revisited Features)
  - Monitor > (see Monitor Panel improvement)
- Timeline:
  - Clips have a gradient texture (can be disabled from settings)
  - Tracks separators are also grouped by Strips connection
  - Region Selection much smoother
  - Clips Handles bigger
  - Mouse pointers have been changed to ease the understanding and the grabbing of handles
- Transport new GUI revamp layout
  - TC Master source can be set by selecting the Master entry, a drop down menu will appear
  - Track header i/o list now includes the Physical i/o name
  - Set In/Out and Goto In/Out merged into a single In/Out button set
    - Click for GoTo
    - Ctrl + click for Set
- Track Headers new GUI layout
  - Main/Big Track number removed. The Strip Number is now the Main Number, and the Channel Type (L,C,R…) is displayed on its right in a grayed color.
  - The Display Waveforms Icon was replaced by three states indicators
    - W: Display Waveforms
    - E: Display Envelope
    - T: Display Blocks
  - Tracks visually grouped by strip connection
    - When strip grouped, only the first track buttons are visible
    - All other tracks show only the strip channel type (L, C, R, …)
    - Buttons can be shown by clicking the little [+] button
  - The Track group reference name the Collapsed and Hidden options were removed from the Track Header as those options are present in the Track Group or Track Tab.
  - New Ctrl + Shift modifiers for all tracks header buttons
    - No modifier, auto-grouped by track group, then by strip
    - Ctrl bypasses any grouping (affects only the clicked track)
    - Shift affects all tracks
    - Ctrl + Shift bypasses the track groups, but still follows the strip (very handy when multichannel strips/tracks are grouped)
    - User Middle Mouse Wheel to scroll Track height.
  - Settings>Application>Track Header Layout customization has been removed
- Scales:
  - New color scheme
  - The current timecode is displayed in the scale header (instead of the range)
  - The Markers header shows the currently selected marker
  - Clicking in the marker header opens a combo box to go to a marker
  - Editing Mode, Master Solo/Mute and Shared Mixer mode have moved to the main Toolbar (below)
- Main Toolbar:
  - All counters revamped and aligned horizontally to save space
  - Editing Mode, Master Solo/Mute and Shared Mixer mode have moved to the main Toolbar
- Tabs new GUI layout
  - All Tabs were unified to new GUI layout. Mostly flatten and cleaned up all tabs content
  - EDL Text Tab rewritten

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New Search tool

- New Quick search tool SQLite based
- The Search Tool is available in the toolbars of the Libraries and Media Manager Tabs
- Search works in combination of standards *, AND, OR, NOT
- Clear Search field by Mouse Clicking on the X field icon
- Options are available at library Search menu or with the icons next to Search Field
    - Search option allows for searching either in **All Mounted Media Folders** or **recursively in the selected Media Folder** displayed in that frame otherwise.
    - Save to Search Results:
        - When clicking button or selecting menu, the currently displayed result of the search query is copied to the Search Results view (see Search Result view).
        - If the user has made some selection in the displayed result, only this selection is copied to the Search Result (result subset) when clicking button or selecting menu
    - Clear Search History:
        - You can Clear the search requests history from the dropdown search field
- Search Results view:
    - A Search Results view is now dedicated to store search results. It's prompted by pressing the search Icon:
    - The results of searches in any of the other Library and View windows can this way be sent to the **Search Results** window. **Media > Search Media** opens the **Search Results** window.
    - The Search Results window behaves just like any other Library / View window. The contents of saved searches can be searched and selected results added to the Timeline and or to other Libraries and as new Search Results folders.
    - Each time the Save to Search Results option is used, a folder is created in the Search Results, including date and search request. This folder can be renamed.
    - The *search box* in the Search Results view is different: Instead of searching all libraries in the frame the Search all option will search the all Media Manager and Global Libraries, while the search current will sub-search the all Search Results library.

New Sampling Rate Conversion (SRC)

Available in Generate CD image, Mixdown and in Media Manager

- Ultimate quality
- 64 bits float internal resolution
- TPDF dithering with NoiseShaping
- 3 different filter impulse response types (Linear, Minimum Phase, Apodizing) to fulfill the various typical expectations
- HeptaCon Pyramix SRC supports:
    - DSD64 input (DSD to DXD conversion)
    - 44100, 48000, 88200, 96000, 176400, 192000, 352800 and 384000 PCM input and output sample rates
    - Only one quality setting is available (this is why the Quality drop down is locked to Very High)
    - 8, 16, 18, 20, 24, 28 and 32 bits quantizing
    - TPDF NoiseType for dithering (this drop down is locked also, as RPDF is not available)
    - 2 different NoiseShaping filters
    - 3 Anti-aliasing Filter Types:
        - Minimum Phase: Design will feature an asymmetric impulse response (minimum phase response)
        - Linear phase: Feature constant group delay (thanks to the linear phase) has a symmetric impulse response, but also longer rings
        - Apodizing filter: Offers the steepest response around Nyquist and linear phase, offering best of both worlds for the about the same computational cost as the 2 other designs
- SRC is available in the Mixdown and Generate CD image
    - Only available in Non-Realtime Mixdown
    - Activate the Processing SRC and ReDithering option in order to access the SRC Output Settings properties
    - In the SRC properties you can access
        - Data Format
        - The Sampling Rate Conversion
        - The Dithering setting

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New Final Check Metering option (multi metering tools)

- See User Manual for complete details
- Available with the Final Check optional key
- General GUI explained (see User Manual for all details):
  The Final Check Metering layout is divided between the (upper) stereo-panel and the (lower) surround-panel. Each panel can be collapsed/expanded using the "-"/"+" button indicator (upper-left corner of each panel).
  To select which Bus/Stem you want to monitor, click on the triangle indicator pointing downwards (top right corner of each panel). You can then select the bus and, the stem you want to monitor. Note that the stereo panel allows you to select Downmix of any surround bus/stem as well.
- Short explanation of the meters available on the main metering page. All these meters are fully customizable via the setup page (decribed below)
  1. Phase meter. The color of the indicator changes to red when the correlation falls below zero.
     - In surround panel, the little logo displayed additionally shows you which 2 channels are being monitored. These can be changed via right-click menu or setup page.
  2. In stereo panel : PhaseOscillo/PhaseStereoMeter/VUStereoMeter. Available under the Setup page in order to toggles between the three of them.
     In surround panel : Surround meter. Red lines indicate negative phase between two neighbor channels. Longer red lines indicate phases closer to -1.
  3. PPM (white bargraphs) : change the different dynamics and scaling-presets (DIN, Nordic, BBC or EBU)
  4. True Peak Meter (orange bargraphs) : also known as intersample peak meter. This meter performs an additional over sampling that allows you to spot peaks located between two samples, and hence to identify areas that are likely to peak after DA conversion.
  5. VU-meter (green bargraphs) : a classical VU-meter, with customizable dynamics.
  6. PPM, True Peak and VU meter all include a peak hold and overload indicator that you can separately set up in the setup page. Click on any meter to reset its peaks and overloads manually. Hit "P" to reset peaks and overloads of all meters
  7. Loudness meter:
     - Sum of all channels or loudness per channel.
     - Fully EBU R-128 compliant. This meter displays a bar-graph as well as the numerical value LUFS (Loudness unit, Full scale, formerly known as LKFS).
     - In the setup page, you can select the time interval upon which you want to integrate loudness (EBU-short, EBU-momentary or any time you want)
     - In the setup page, you can enable a peak hold feature. We enabled, the numerical value will additionally display the letters "Pk :", and the number won't reset until you click on it.
     - Loudness Integrating Mode (Int) and Loundess Range (LRA) are effective when you your measurement is running. You can control this using the 4 "Start", "Pause", "Reset" and "Restart" buttons.
     - The value beside the Int and the LRA ones in parenthesis () represents the time during which we've Integrated. Note that it'll stop increasing when your signal is below the gate threshold (which you can define in the setup page) A playback pause will therefore not affect the MEASURED value. When the signal is gated, the word GATED is displayed as well.
     - Additionally, this meter displays a plot against time of its recent sum over all channels value. This history graph is also piloted by the "Start", "Pause", "Reset" and "Restart" buttons.
     - Fully compatible with ATSC (Advanced Television Systems Committee) A/85.
     - Fully compatible with ITU-R 1770-1.
     - LUFS are the same unit as Dolby Dialnorm™ unit, and you will therefore get the same results as long as Dolby's automatic speech detection is disabled.
     - LUFS are exactly the same unit as LKFS. EBU R-128 however prefers the name LUFS.

- Setup page :
  - Can be accessed simply by clicking the "Setup" button on top right of the window, near the "x" button for closing the window (note the "Metering" button which allows you to come back to the main Final Check window.) In the setup page use the "Enable" buttons of each section allow you to show or hide a given meter. More details to the different controls in user manual.

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VoiCode Plug-in

- Merging's VoiCode Plug-in is the first professional mono to Stereo upmix. Available with optional key only as a VST plug-in
- In order for the VoiCode to be seen within Pyramix, the users will need first launch VST scanner and scan this folder path ”C:\Program Files\Steinberg\VSTPlugins\Merging Technologies”
- Genuine MS virtualization of your sound sources within their natural recording environment. All possible directivities are supported
- Fit for real-time and on the air productions
- MS virtualizer showing the range of suitable parameters
- Automatic parameter calibration
- Manual expert mode for postproduction
- Correlation editing features
- Correlation meter and Oscilloscope included

Rewire Support

- Propeller Head “Rewire Mixer Application” is now supported with Pyramix
- The Rewire support must first be enabled in the VS3 Control Panel under the Audio Bridge section
- The number of Rewire channels is in relation to the entered value in the VS3 Control Panel
- The Rewire connectivity will appear in the Mixer inputs, as lives inputs
- Supported from 1FS up to 8FS
- Note that you cannot use the combination of Rewire and the Asio Bridge. Only one mode at a time can be selected in the VS3 Control Panel (such support is planed in a near future).
  Warning: In playback loop mode, Pyramix and the Rewire client are known to be drifting when cycling through the loop (MT3919)
  Workaround: Make sure you work in Video frames. Go to the Profiling debug menu (bottom of Pyramix GUI Mouse+Right Click) and use the Round Loops to Video Frame option

Major Automation Overhaul

- **Track Header New Automation Editing Sub-Tracks**
  - The [+] on the right of the Automation Track Name on the third row of the Track Headers now opens a new sub-track instead of creating a Virtual Track.
  - This sub-track displays the automation curve and shows on the header its name and a little [+] and [-]
  - The [+] allows for opening another sub-track
  - The [-] allows for removing this sub-track
  - When there’s at least one sub-track a little [A] appears on the left side of the track header allowing for collapsing/expanding all Automation sub-tracks.
  - The check box in The Select Display Automation Track accessible through the dropdown “More…” menu that was allowing the Create a Virtual Track has been renamed : “Display the selection in an extra automation sub-track”.

- **Track Header New Automation Bus Tracks** (MT3400)
  - Normal Audio Tracks are used for this feature
  - When clicking on the Top/Left button for connecting the Track to the Strips, the dropdown menu now allows to also connect the Tracks to Mixer Bus
  - Slight difference however between Strip and Bus tracks channels. For Strips we connect a Track to a Strip discreet Channel if the Strip is multi-channel, where as for a Bus Automation we connect the Track to the entire Bus without distinction of its channels.
  - The Bus ID is display in the connection Box (SR1, ST2, A3, etc…)
  - The Bus Name is display in the Name Box, but is NOT editable (to be implemented later)
  - The Fx button remains available
  - The Automation button [A] is available
  - The Automation Name and [+] are available
  - Automation Sub-Tracks (through [+]) are available
    Notes:

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- When connected to a Bus the Track doesn't playback any audio while still allowing for carrying clips
- When right clicking on the [A] button or left clicking on the Automation Name or [+] all menus allowing for selecting Automation Tracks do filter available tracks following the Bus controls like it does for Strips when connected to a normal Strip

- **Track Header New VCA Group Tracks:**
  - Users can now connect Groups Strips directly from the Track Header
  - The VCA Group name identifier is the current VCA Group Name in Mixer

- **Automation Editing Menu new Global Modes**
  New entries in the Edit menu under Automation Editing, Global behaviors:
  - **Enable Automation Editing**:
    - Enabled By Default
    - Allows Timeline Automation editing as said.
  - **Cut/Copy/Delete Displayed Automation:** (delete to be added in next build)
    - Will affect all Automation Displayed only when Editing (so only Curves visually showing)
  - **Cut/Copy/Delete Whole Strip Automation:**
    - Enabled By Default
    - Will affect all Automation, even the ones that are not displayed in timeline track when editing.
  - **Erase points on Cut/Delete:**
    - Will erase all point contained in the selection
    - It will not add Automation points to boundaries of the selection
  - **Delete and Interpolate on Cut/Delete:**
    - Enabled By Default
    - Will interpolate a curve from start of selection to end of selection
  - **Delete and Maintain on Cut/Delete:**
    - Will not interpolate the curve from start to end of selection so it maintains a flat curve at Cut or Delete

  - **Notes:**
    - Toolbar Buttons are available for those Automation Editing entries.
    - The Automation Menu will not take in consideration those modes and can be used independently to the Automation Editing mode.

- **VCA Groups**
  - **VCA Tracks Editing**
    - The VCA Group Automation is now displayed in the Timeline as a shadow/summation (Gain or Mute only) to the current Automation of the Strip linked to that VCA Group
    - You cannot edit the VCA Group Automation when it is displayed in a Strip Track part of that Group, but all editing of the Strip Automation will Link and calculate the summation in real time.
    - The VCA Group Automation can only be edited if displayed in its own Track Header (see above)
  - **VCA Coalesce:**
    If a Strip is associated to a/multiple VCA group when you exit the group you have a Message Box that will display "Leaving VCA Group" two choices are available
    - Coalesce Yes: Will Commit the Strip Automation to the VCA Group Summation
    - Coalesce No: Will exclude VCA Group Automation summation and leave Strip Automation curve as it was.
    - Note: The Coalesce Mixer button is the only one in the Mixer supporting Undo/Redo.

- **Automation options for SnapShot Range By Strip**
  - **All:** Always opens selecting All
  - **Nothing:** Always opens without selecting any item
  - **Displayed**: Will auto-select the automation items based on the current displayed Automation curves in timeline
  - **Last:** Will remember the last selected items*, it can be seen as a sort of preset
  - **Notes:**

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- Pressing CTRL and the Snapshot Range Cameras button will automatically apply a snapshot without opening the Window, doing so by considering the last opened state. Make snapshots much quickly. You can also use the Automation Menu "Automation SnapShot Range Last Selection" entry.
- Warning*: Rebuilding the Mixer will re-initialize the Snapshot window selections, since entries are added or removed (back to default snapshot state)

- **Automation options for SnapShot Range By Type**
  This view is a little like the old view by buses, to the difference that we now regroup all the Mixer Parameters under a common item. All Gains will or all Mutes will be regrouped under one item (Gain or Mute)
  - **Notes:**
    - If you have multiples Plug-ins they will also be regrouped, but you will see their entries depending of the insert order position.
    - The parameters selection is saved and recalled the next time you want to apply a new snapshot. This is very useful when you want i.e. snapshot only EQs whatever the timeline selection.

- **Automation Snapshot Range Fade option.**
  - **"Fade From"**
    - New option is available for Snapshots Range only
    - It allows you can applied a Fade From or To Selection boundaries
    - User can enter the Fade length value in ms
    - Note**:** Fade value before Pyramix version 7 was 0 and not settable
  - **"Fade To" Option**
    - New option is available for Snapshots Range only
    - The result of a Fade To is applied prior to the selection boundaries

- **Automation Snapshots Cursor Options**
  - **"Maintain to Next Point" option**
    - This option is by Default unchecked and will perform the snapshot on selected parameters all the way to the End
    - If checked we will perform the Snapshot up to the Next point present on the Automation curve of the Selected Parameter.
  - **Automation Snapshots To End option**
    - Unchecked**:** This option is by Default unchecked and is available for the Snapshot Range by Strips only (not available in snapshot range)**.**
    - Checked: The snapshot Result will apply the Snapshot all the way to the end
  - **Notes:**
    - Pressing CTRL and the Snapshot Cursor Camera button will automatically apply a snapshot without opening the Window, doing so by considering the last opened state. Make snapshots much quickly. You can also use the Automation Menu "Automation Snapshot Last Selection" entry.
    - Warning*: Rebuilding the Mixer will re-initialize the Snapshot window selections, since entries are added or removed (back to default snapshot state)

New Bars & Beat toolbar

- Preroll clicks follow the Signature Denominator (x/4, x/8, x/16, etc...)
- The Signature is now available in the B&B counters and affects the current Bar under the cursor (as per the tempo)
- By default the preroll beats the denominator, but if the user Clicks on the SG (Signature) label of the B&B, it will turn to Cyan, this particular Bar Set under the cursor will be considered as Compound, and the preroll then beats every other 3 denominators.
- A Link symbol (chain) between the CLK IN and CLK OUT symbols was added. Clicking on it will toggle between No Link ( ), Markers (MRK) and Region (RGN). Click In/Out are then automatically linked to the Markers or Selected Region
- A simple Mouse + Click on the Bars & Beat "Metro" name will open the Metronome Settings
- Bars & Beats counters include:
  - Start Offset for the first Bar

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- BPM setting for the first tempo map (the one starting at first Bar)
- A PreRoll in Beats for the Metronome
- A On/Off/PreRoll Only toggle for the Metronome
- A Volume control for the Metronome
- Click In and Click Out counters
- When Click In is set (to something else than 1, 1, 1) the PreRoll pre-counts to Click In Bar/Beat, otherwise pre-counts to the first Bar
- The BPM counter now shows and allows modifying the tempo map portion where the cursor is on (and not anymore the first tempo map portion)

Sony protocol support over IP

- Pyramix and VCube can now be synchronized through LAN
- Enhanced reliability and simplified configuration (VT server no longer needed)
- Machine Support Configuration
  - Can be enabled in the Settings>Machine>Sony 9 pin properties, "Pipe (Ethernet)"
  - Configure the "Pipe (Ethernet)"
    - Identifying the Remote Computer Name (can be left black if the Remote Computer is local)
    - The Port Name (can be left blank if only one port is used by the system)
- Controller Support Configuration
  - Can be enabled in the Settings>Controller>Sony 9 pin properties, "Pipe (Ethernet)"
  - Configure the "Pipe (Ethernet)"
    - Configure the Port Name (can be left blank if only one port is used by the system)
  - VCube transparent to configuration
    - No special Settings needed (no Port Name field)

Available in Controller mode only

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v7.0 IMPROVEMENTS

- **Faster Save**
  - Note on the new Save process:
    At project opening we now will decompress the project .pmx file into multiple files (.pmx, .pml, .Playlist.pml, .DefaultLibrary.pml and .Composition.pml) those files will only be all visible in Windows Explorer when the project is open in Pyramix. At save time we will re-zip those files into a single .pmx file and at close we will remove those decompressed temporary files.

- **Jog Improvements**
  - Sound quality improvements
  - Ballistic improvements
  - Simplified settings/GUI layout
    - Varispeed Audio Quality settings
    - MassCore varispeed quality is automatically set according to the current Core load
    - Native and Mykerinos varispeed quality is defined by the playback streams number set in the played back tracks setting

- **Automation and Envelop Improvements** (more to updates expected to come at Beta2)
  - Trimming Automation on a Groups Faders will take in consideration the connected tracks (MT354)
  - Mute is a logical "OR" of local or VCA master mute
  - Isolate and Read mode behave as intended either locally on Grouped strips or on all slave Strips when the master VCA is isolated (MT2157)
  - Automation in Track header improvements in selection
  - Ctrl + Automated control touch (mouse click) shows the automation track to the clicked parameter
  - New Automation line colors
    - Fader: Blue
    - Pan/Balance/Surround: Green
    - Send & On/Off: Cyan
    - Mute: Red
  - All others: Black Automation and Envelop editing improvements
    - Automation and Envelopes now have a slight difference, Automation handles are little circles and Envelopes handles remain as little squares.
    - Mouse pointers have been change to ease grabbing of handles and points
    - Editing Fine tuning with the use of the Shift modifier
    - Follows the Nudge Settings
    - Automation mouse editing behaves like the Envelop editing (MT3681).
      - Trim on the fly added (Ctrl modifier)
      - Write automation with mouse is activated with the Alt modifier (was Ctrl)
    - New mouse pointers designs have been done for editing automation and envelopes accordingly.
    - There is now a difference between Automation and Envelope pointers, Automation cursors have a little circle next to the pointer and Envelope pointers have a little square.
    - There is now a difference in pointers when editing an already existing point and creating a new point (clicking on a point or on the curve)

- **Editing Improvements**
  - Editing functions are now available in the Timeline dropdown menu (Mouse + Right click when a clip is selected)
  - Modes are bigger and easier to grab
  - Shift + scroll wheel can be used to increase or decrease the track size of tracks (Like Alt does the zoom and CTRL does the scroll left to right)

- **Media Manager improvements**:
  - QuickMount is not an option anymore with 7. It's always used when mounting a folder.
  - Added Media Manager Setting
    - New option under Settings>Application>General to "Mount all Media Folders that were mounted at previous Application Exit"

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        - When this Previously Mounted folders option is checked, the folders mounted in the media manager are preserved: Next time Pyramix is launched, the Media Manager content is simply updated against the file system folders to reflect potential changes.
          With this option enabled it will be faster than a complete folders mount.
    - Arrow on the heading of the chosen column to show ascending/descending order
    - Lock Rename
        - New option that will lock the renaming of the medias in the Media Manager or Libraries.
        - To prevent the rename simply go under the Edit menu and select the "Lock Rename" option
    - Place Media:
        - CTRL +P will do so when the focus is in the Tab section
    - Information: The media manager content doesn't have to be fully remounted from scratch at every application run anymore. That can be a big time saver when large amount of data is requested in the media manager. The media manager content can be kept as is and its content integrity is synchronized with the storage content every time Pyramix starts.
    - Therefore a new option group has been added (like for the On Project Opening): At Application Loading:
        - Mount the Folders listed in: All Settings > Application > Location Page > Permanently Mounted Media Folders (like in 6.x)
        - Mount all Media Folders that were mounted at previous Application Exit

- **Column Management improvement**:
  You can now perform a Mouse + Right Click on the headers of the columns to open the Columns menu

- **EDL Tab Improvements** (MT1357)
    - Media name column area can be extended
    - Ability to sort it by any of the columns
    - Retains the sorted order once clicking on column

- **Global Library Improvements**
    - Detailed indication load information status at load (MT2896)
    - Global libraries are saved and restored.(MT3611)
    - SHIFT+ Mouse Click will close ALL open libraries

- **Select Used Media:**
    - They are now single views (no more popping views group).
    - The tree view displays all Media Manager folders containing selected Media.
      The list view shows all media selected in the currently highlighted folder.
    - Refresh(F5) toggles the list display between 2 modes:
        - In the first mode, media is shown in media manager context with all neighbor media displayed but grayed out. This neighbor media Category is set to "Not Selected"
        - In the second mode, only selected Media is displayed.

- **Track Header**
    - Mini, Medium, Large, Extra Large Track Size menu have been added in the View > Tracks menu as well to allow for mapping a keyboard shortcut
    - Mini, Medium, Large, Extra Large Track Size Double Click now only works when clicking on the very Left side of the Track Headers
    - Track Header Automation menu now shows only the Bus | Control and not Mixer | Strip | Bus | Control anymore
    - Track Headers Button have been darken on GUI (Can be set to White under Timeline Layout Settings)
    - Click in the Peak Meter to show/hide function return
    - A third row has been added to the track headers
    - Automation [+] to create a virtual track and display the automation (as in the Selected Automation Display dialog)
    - Fx button added in the second row in Track Header
    - Monitoring: We now toggle between Repro and Input only, this only in Play. In Stop we toggle between Auto, Repro and Input.
    - New keyboard shortcuts access for Track Headers buttons:
      This affects the currently selected track.
        - Mute
        - Solo

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- Monitor
- Record Ready
- Display (Wave/Envelope)
- Automation Show/Hide
- Automation Sub-Tracks (see Automation new feature description above)
- And all Automation commands accessible through the right mouse button on the [A] button

- **Toolbars improvements**
  - Toolbars buttons now have a background when applicable.
  - Main TimeCode can now be edited
  - Counters Toolbar switches to "very flat" mode when only the main counters are displayed
  - M IN and M OUT are now colored in Red/Green

- **Counters can now follow the Nudge settings** (MT3725)
  - Pressing the +- signs on Mark In and Out counters using Ctrl + Alt will follow the current selected Nudge Setting.
  - The same applies for the rest of the counters

- **Markers Improvements** (MT3684)
  - Markers can now be deleted and renamed from top of the timeline
  - Left or right click on the Track Header top track group portion will open a jump to marker Dropdown menu.
  - Makers are also available from the Markers dropdown menu at top to Track Header

- **New Synchronized Tracks & Strips Behavior**
  When Creating, Destroying or Moving Strips in the Mixer Configuration page (or right mouse button) the connected Tracks are also Created/Destroyed or moved accordingly
  - Will apply when the menu Tracks > Synchronize Tracks & Strips is checked.
  - On Create or Move the Tracks are created or moved seamlessly.
  - On Destroy, only empty tracks are destroyed. Tracks containing clips are preserved, disconnected and set to minimum size.
  - Only applies when the menu Tracks > Synchronize Tracks & Strips is checked
  - When in Synchronize Tracks & Strips, moving a Fader first attempts to select tracks in the selected track group if any, then defaults to selecting the first track connected to the strip as of now.
  - When in Synchronize Tracks & Strips, renaming a track doesn't rename all tracks connected to the same strip, but only those in the same track group

- **New Timeline Layout options in Settings:**
  - Track Header option in the Timeline Layout Settings offering the choice for Back buttons or White buttons
  - Choice of disabling Gradient Look for Clips
  - Choice of color for:
    - Waveform of Muted Clips
    - Waveform of Phase Inverted Clips
    - Waveform of Wrong Sampling Rate Clips
    - Sync Point
  - Timeline Displayed options
    - Choice of graying Out Muted Clips
    - Choice of displaying a Phase Invert sign in Clips
    - Choice of displaying a Wrong Sampling Rate sign in Clips
    - Choice of always displaying the Sync Point or only when the Clip is selected
    - Choice of displaying the Sync Point Color only when Sync Point is set or always
    - Choice of displaying Envelope/Automation Curves as Thick line on large track size or always thin
  - SRC indicator
    - A little "SR" icon in Blue means that the media clip is at "Wrong SR but SRCized" (the SRC option is enabled in the Settings>Application>Playback/Record)
    - A little "SR" icon in Red means that the media clip is at "Wrong SR but NOT SRCized" (the SRC option is disabled in the Settings>Application>Playback/Record)

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- **CD/SACD Tab layout**
  - CD Tree Info and PQ Markers we inverted in the Layout to show Tracks on top of Tab

- **Waveforms**
  - Half Waveforms display (MT1228):
    - New option under menu View>waveform display>Show Half Waveform / Origin
    - Allows users to display the waveform relative to the bottom of the clip (useful for mixing)
  - Clips menu entry: Added Keyboard shortcuts for Background and Waveform Colors

- **Monitor Panel**
  The Monitoring Panel is now available from the Monitor Menu. Shortcuts can easily be assigned to each parameter for control.

- **Interchange Improvements**
  - The AAF import now includes a new option "Use UTF-8 conversion to import Links/Locators Path Names". This allows converting the referenced path names (called Locators in AAF/OMF) using UTF-8 coding. This was the default previously and works in most cases, but we leave the option for some imports that could be problematic without.
  - We now export Copies to a "Audio Files" folder instead of a "Media Files" folder
  - Clips names in timeline or some DAW (ProTools) are note the "clips names" of the Pyramix Timeline but the master clip name. We have resolved this but it implies a larger files generated if multiple clips with different names share the same media
  - Fade in/out were linear
    - Supports only Power and Linear fades (AAF limitation)
    - Now correctly when re-importing in Pyramix but seems having no effect on some other DAW

- **Source Destination**
  - Three new menus have been added in Edit > Source-Destination:
    - Automation Unchanged for Source Track Groups
    - Automation Off for Source Track Groups (this mode will also affects the Enable Cut/Copy/Paste Automation mode (set to Off for Source Tracks)
    - Automation Play for Source Track Groups (this mode will also affects the Enable Cut/Copy/Paste Automation mode (set to Off for Source Tracks)

- **FLAC decoding** (MT3631)
  - Decoded with the DS Handler (bit transparent).
  - Install the latest Flac distribution in Program Files/FLAC see download link below
    http://sourceforge.net/projects/flac/files/flac-win/flac-1.2.1-win/flac-1.2.1b.exe/download
  - Pyramix will use this distribution to decompress all .flac files

- **Third Party ReNOVAtor**:
  - A new ReNOVAtor Renderer version (2.2.1.1615) from the Algorithmix team that fixes a memory issue for a given selection is now available.
  - When lacking memory ReNOVAtor should now come up with an "Out of Memory in ReNOVAtor, selection too long" error instead of Crashing. You will then have to make a smaller selection in order to perform such a Render.
  - For installation, make sure that Pyramix is closed and simply run the installer corresponding to the dongle you use (this will replace the previous version).
    - http://intern.algorithmix.com/download/reNOVAtorPyr_Wibu.exe
    - http://intern.algorithmix.com/download/reNOVAtorPyr_Sync.exe

- **DMA overload**
  - We now indicate in the Core section (bottom of Pyramix GUI) if a DMA overload occurred. The text in such case will be a blinking red DMA indication

- **DolbyE Encoding/Decoding (option)**
  - New SurCode Dolby E Decoder and Encoder VST keys. No longer need for Minnetonka & iLok
  - Dolby E can be authorized through a Merging VST Key
  - Users will need first launch VST scanner and scan the folder path below "C:\Program Files\Steinberg\VSTPlugins\Merging Technologies" in order for the SurCode Dolby E Decoder and Encoder VSTs to be available.

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BUGS FIXED Pyramix v7.0 Release (some fixed bugs could be missing from the list)

- Fixed. Sqlite (database) optimization
- MT3793: AAF: Relink problems with special characters ("Use UTF-8 conversion to import Links/Locators Path Names" button in import AAF window)
- MT3958: Fixed. Media Manager: PMX or PML files located in the same folder than Medias will not quickmount and reparses all medias at project opening
- MT3999: Fixed. Media Level indication not accurate in some selections
- MT3984: Fixed. Final Check mini panel in setup page takes too long to update
- MT3993: Fixed. Media Manager: Some folders are seen in double or triple
- MT3980: Fixed. Some libraries become corrupted with "Parameters incorrect" message
- MT3994: Fixed. Generated CD Image may not be aligned to CD frames boundaries and cause Glitch at end of resulting file
- MT3957: Fixed. Database: Added Media Manager menu (Media Folder) entry to clear Media Manager history
- MT3974: Fixed. Database: Media_Library.pml becomes corrupted if changing the Database Location and not restarting Pyramix
- MT3981: Fixed. Final Check Surround monitor and oscillo background alignment problem
- MT3995: Fixed. Generate CD Image with Mixer dither in a non 44k SR project will crash at the end
- MT3996: Fixed. Some OMF (pure) files not seen in media Manager
- MT3971: Fixed. Final Check loudness "PAUSE" button doesn't pause Int and LRA
- MT3972: Fixed. FCM VU meter peak hold not functional
- MT3976: Fixed. Mouse erasing automation point in the Timeline does not behave correctly on extra tracks
- MT3963: Fixed. Automation: Track Bus with No Automation in view will not take parameters in Snapshot window
- MT3962: Fixed. Automation: Snapshot parameters incoherent
- MT3661: Fixed. Automation drift when generating CD image
- MT3881: Fixed. Jog Wheel Selection Listen not considering only selection
- MT3873: Fixed. Automation: Add shortcut option for snapshot, in automation menu
- MT3914: Fixed. Rename in Media Manager not working
- MT3929: Fixed. Library: update library reference Path is not working
- MT3937: Fixed. Mixer: Configure page, copy to selected Bus does not work in some cases.
- MT3938: Fixed. MTUSBSync: NTSC detection not working, reporting PAL
- MT3949: Fixed. Global Library: media icons are not reflecting the mounted/unmounted info. need to F5 refresh to get an up-to-date display
- MT3956: Fixed. Mixer Jumps to the side of the screen when scrolling
- MT3966: Fixed. Final Check Overload leds behaving weird
- MT3967: Fixed. Added Loudness Range in Final Check

BUGS FIXED Pyramix v7.0 RC3 (some fixed bugs could be missing from the list)

- MT3811: Fixed. Tempo and Signature are not communicated through Rewire
- MT3819: Fixed. Media Manager: Lock rename not always working
- MT3820: Fixed. Media Manager: Dragging media from Trimmer to Libraries not always working.
- MT3822: Fixed. Pyramix does not exit when Rewire is enabled
- MT3832: Fixed. Media Manager: impossible to delete a clip that is referenced in the timeline.
- MT3834: Fixed. Libraries: Place function not working if the Trimmer is set to OFF
- MT3887: Fixed. Automation: Encountered Improper Argument at Automation paste
- MT3911: Fixed. Pyramix may crash when accessing ASIO4ALL properties
- MT3913: Fixed. DMA load now indicated in the Core section if an overload occurred
- MT3918: Fixed. Playback offset (-1 frame) when a playback is preceded by a varispeed phase
- MT3920: Fixed. Trimmer: Keeps last clip viewed in display, even if changing folder focus
- MT3822: Fixed. Mixer Routing IB are missing
- MT3923: Fixed. Trimmer: If off, the played audio clips will not update
- MT3925: Fixed. Crash when opening some projects timeline
- MT3930: Fixed. Media Manager: Runtime Error (or Crash) Reversing some clips
- MT3934: Fixed. MTUSBSync: wrong video format detection in driver version 1.0.13
- MT3935: Fixed. MTUSBSync: Timecode does unlock when synchronized to video signal 1080sf @24 frm/s

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- MT3885: Fixed/improved: Reconform Load Change EDL consumes too much memory. Improvements to release some memory.
- MT3905: Fixed. Improved the Search DropDown menu box. As toolbar buttons on the left of the search box and in a Search Menu in the Library, Media Manager and Search Results frames.

BUGS FIXED Pyramix v7.0 RC2 (some fixed bugs could be missing from the list)

- MT3888: Fixed. Media Manager: Clicking in Media Browser folder (media) will mount it automatically
- MT3886: Fixed. Media Manager: Medias become offline if selecting same media folder in Media Browser
- MT3882: Fixed. VCA group Automation will position all faders at 0dB at first playback
- MT3877: Fixed. Ctrl + Automated control touch (mouse click) shows the automation track
- MT3869: Fixed. AES31 import : audio files not in the timeline.
- MT3063: Fixed. Libraries: Cannot drag&drop clips with in/out from the trimmer to the timeline, or crash
- MT2378: Fixed. Automation "A" parameter selection should be more efficient, better auto selection of the latest automation parameter touched.
- MT1370: Fixed. Track Monitoring mode: Need a choice rather than having to cycle through the three possibilities (ALL INPUT / AUTO INPUT / REPRO)
- MT3824: Fixed. Media Manager: Cannot copy/paste multiple medias selected anymore
- MT3828: Fixed. Libraries name sorting not logical
- MT3856: Fixed. Offline Libraries should keep folder tree hierarchy
- MT3860: Fixed. Crash when opening some project - Loading Media file
- MT3864: Fixed. ASSERT when opening the specified pmx in 6.x to 7
- MT3868: Fixed. Media Manager; Pyramix will crash if .mtk file is present or .adl
- MT3871: Fixed. Save switches the focus away from timeline
- MT3866: Fixed. VST plugins automation mode is not settable from the Pyramix mixer
- MT2117: Fixed. Automation cut copy paste should cut the automation away if cut is used on the clip
- MT1592: Fixed. Automation: auto-display not working on surround panner Front/Rear
- MT3859: Fixed. Pyramix editing CrossFade between clips improper argument message still possible
- MT3865: Fixed. Mixer automation mode is not updated when set from a console
- MT3870: Fixed. Automation: Is lost with Automation Reconform EDL
- MT3878: Fixed. Sony over IP: Ability to enter an IP address instead of a computer name
- MT3825: Fixed. Automation: Auto-Display update not always considered if going from one parameter to the other
- MT3872: Fixed. Clip Gain requires mouse click as "Enter" focus not working.
- MT3862: Fixed. Unable to copy paste VST plugins automation from a track to another
- Media Manager: File extension are now parsed according to the ones supported by the media handlers within Pyramix.

BUGS FIXED Pyramix v7.0 RC1 (some fixed bugs could be missing from the list)

- MT2669: Fixed. Monitor Panel: should have shortcuts to parameters changes parameters in the Monitor section
- MT3857: Fixed. Track Tab: Cannot create new track.
- MT3760: Fixed. Template: Open or Save as template cannot be re-opened afterward
- MT2641: Fixed. Request for default pan placement for SR busses on mono or stereo channels
- MT3672: Fixed. AAF improvements
- MT3712: Fixed. Mixer: Cannot insert a VS3 plug-in from the configure page on a Direct Monitoring strip
- MT3312: Fixed. DSD Project - Mixer- "Organize" should be deactivated ("Organize" tab should be removed in DSD project because user can load incompatible mixer)
- MT3854: Fixed. crash when double click outside of tracks in timeline
- MT3676: Fixed. AAF import crash when importing from network
- MT3823: Fixed. Playback stall when SRC is enabled (in DXD project with DSD medias & 48kHz project playing 44.1kHz medias)
- MT3747: Fixed. Cannot access Mixer settings from Mixer page (Mouse+Right Click menu)
- MT1020: Fixed. Automation: Modifier key to turn the pen into an eraser
- MT2153: Fixed. Automation" The "Automation overlay context menu" (Displayed automation track) should be available in the keyboard shortcut editors with search options also
- MT2213: Fixed. Automation: Adding a Node / Point will raise the +db level instead of keeping it at 0 db

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- MT2884: Fixed. Automation: No longer possible to do a snapshot with write to end option
- MT3658: Fixed. Record: Name not displayed during recording if "Fixed Cursor" is enabled
- MT3662: Fixed. Track header automation functions not undoable with VCA tracks
- MT3689: Fixed. Automation Snapshot: Add old behavior option back of selecting all
- MT3713: Fixed. Selection: Adding to selection does not update the Ruler Selection Duration length value
- MT3801: Fixed. Fade Editor: faders are not always displayed correctly
- MT3806: Fixed. Templates: Cannot open some templates.
- MT3830: Fixed. Mixer: When minimized the Meters are displayed in black (windows 7 only)
- MT3717: Fixed. CD/SACD tab layout should display part of the CD Album & PQ Markers
- MT3150: Fixed. Mixer: Added contextual Menu option to set all Effects to Enable
- MT3602: Fixed. Mixer: Delay Compensation indicator not accurate in Automation playback
- MT3503: Fixed. Track header i/o list includes the Physical i/o name
- MT3840: Fixed. Read-only problems for QuickMount and .pmx/pmt
- MT3858: Fixed. Problems with project name containing dot(s)
- Fixed. VST GUI Display: make sure a VST Editor UI is always visible when showing it
- Fixed. New Templates were included in V7.0RC1
- Fixed. Import DDP issue
- Fixed. AAF timestamps are now correctly imported/extracted

BUGS FIXED Pyramix v7.0 Beta4 (some fixed bugs could be missing from the list)

- MT3792: Fixed. Media Manager: Sort by creation date by clicking the column header is not accurate.
  - In order to apply such fix the user must
    - Mounted folders need to be remounted from scratch (SHIFT+Refresh) so creation date is regenerated.
    - For libraries they need to be regenerated either from 6.xxx versions or from sources.
- MT3736: Fixed. Clips played in libraries or drag and dropped in timeline do not show online icon afterwards
- MT3796: Fixed. Media Manager: Paste timeline clip in Media Manager browsed folder changes the original clip path location (Temporary mounted folders in Media Browser should be unmounted when unselected)
- MT3799: Fixed. Media Manager: Error-Encountered an Improper Argument in non Detail View
- MT3741: Fixed. Project Media Folder: ignored when already set and present
- MT3724: Fixed. Column settings view options sometimes comes up empty
- MT3798: Fixed. Waveforms disappear if clip fade is length of clip
- MT3759: Fixed. Relink issue when importing AAF
- MT3740: Fixed. Timeline/Media Manager: using copy in timeline and paste with media in Media Manager bring along a composition file
- MT3519: Fixed. Pyramix: Media Manager "Improper argument" error.
- MT3800: Fixed. Half Waveforms display not accurate at times
- MT3746: Fixed. Search: Keep a history of the search results.
- MT3677: Fixed. Isis record button does not lit in Auto-Punch mode
- MT3803: Fixed. Generate CD image will crash Pyramix (MTSRC_hepta.dll)

BUGS FIXED Pyramix v7.0 Beta3 (some fixed bugs could be missing from the list)

- MT3660: Fixed. Recorded clips do not appear in Media Manager, unless doing a refresh.
- MT3791: Fixed. Pyramix Record: Long Pause after multitrack recording one file per track with v7.0
- MT3797: Fixed. Automation and Envelop points on same vertical alignment cannot be moved nor selected
- MT1353: Fixed. Pyramix CD Scale mismatch, and not representative
- MT3789: Fixed. Timeline: Clip editing & Crossfade can make clip go under others visually in timeline.
- MT3782: Fixed. Create one new Strip & Track will duplicate the tracks in timeline
- MT3779: Fixed. Metronome: the individual levels for Bars, Beats and Grid are not working
- MT3756: Fixed. Synchronization Sony unstable in chase
- MT3771: Fixed. Bars & Beat Region link will affect the Tabs Dropdown menus (quickly closing them)
- MT3755: Fixed. Quickmount are too slow at load in PMX v7.0. Next Mount attempts should be much faster if nothing has change in the mounted folder. Otherwise, Mount occurs again.
- MT3784: Fixed. Create offline library: broken

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- MT3750: Fixed. Global Libraries: Save as does not put the file extension .pml and neither renames correctly
- MT3749: Fixed. Document library: Save As crashes Pyramix
- MT3734: Fixed. Saving to new template will not allow you to re-open the template afterwards
- MT3733: Fixed. Media Manager: Trimmer play blocked causing crash in copy media afterwards
- MT3237: Fixed. Select used Media comes up empty
- MT3714: Fixed. Add Phase information on the clip in timeline (added in Settings>Timeline Layout)
- MT3705: Fixed. Mounted Folder inconsistencies. The folders are displayed in light grey when they're empty.
- MT3721: Fixed. Final Check: parameters should be saved in project.
- MT3761: Fixed. Cannot open a v6.x project that has been saved under V7.0
- MT3760: Fixed. Fail to open document: Save as template cannot be re-opened with new from template
- MT3744: Fixed. Timeline: some editing functions will something make clips disappear in the timeline
- MT3768: Obsolete. Remove ViperNL controller protocol
- MT3544: Fixed. Sync Marker should be optional in timeline view (CrossFade also)
- MT3677: Fixed. Isis record button does not lit in AutoPunch mode
- MT825: Fixed. Zoom Vertical not working after a Zoom horizontal, as you are re-directed to the Project menu when using ALT

BUGS FIXED Pyramix v7.0 Beta2

- MT3671: Fixed. Crash when mounting some Aiff files coming from Avid
- MT3735: Fixed. Open a library in Pyramix v7.0 and the name will be New Library
- MT2946: Fixed. Pyramix DDP import module: longer output path field (for longer path name)
- MT3742: Fixed. Replace VS3 plug-in on bus
- And many changes to GUI according to Beta Users feedback.

BUGS FIXED Pyramix v7.0 Beta 1

- MT3580: Fixed. Global Library: Crash when using search
- MT3581: Fixed. Archive: Cannot consolidate archive (Pyramix v7.0)
- MT3637: Fixed. Media Manager: Place in timeline will only place one clip
- MT3703: Fixed. Paste: when pasting to a destination folder, pasted media must be selected by default.
- MT3696: Fixed. Libraries: Can't open several libraries at once
- MT3699: Fixed. Select mounted folder combo box doesn't work
- MT3700: Fixed. Select used media is broken
- MT3692: Fixed. Document libraries: Adding a composition entry to the library – can’t paste
- MT3707: Fixed. Playback: Cursor Auto-Return no longer works (pmx v7)
- MT3697: Fixed. Libraries: Can't open library / Mount folder containing
- MT3579: Fixed. AAF import fails "Unhandled Exception' (Pyramix v7.0)
- MT3679: Fixed. Native with Lynx Aes card : ASIO latencies changed message (moved to Log file)
- MT3501: Fixed. Jog wheel Zoom mode improvements (Zoom to Navigate issue is present only in fixed cursor mode)
- MT2922: Fixed. Library: Cannot cancel the opening of a global library
- MT2940: Fixed. Media Manager: Selecting a folder make it jump to the bottom of the folder tree
- MT3357: Fixed. Pyramix freeze when mounting special file extensions (.sys, .odt, .txt, .part, .vip)
- MT3556: Fixed. Several MassCore entries in BCD (Windows OS multi-boot)
- MT3625: Fixed. Save Document library will select project name with pmx extension instead of .pml
- MT3670: Fixed. Mykerinos: One channel of the AES2-SRC was spread over two channels when using the special SRC mode 8FS to nFS
- MT3584: Fixed. Conversion error of v6.x quickmounts to the new v7 quickmounts (SQLite version)
- MT3321: Fixed. Library "Out Of date" message appearing with new project and libraries.
- MT2894: Fixed. Libraries: GUI improvements (view list, edl, trimmer display)

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Pyramix V7.0 Known Issues

(Some issues could be missing from this list)

- **MassCore**
  - Now supported under Windows 7 (32 Bit only) since Pyramix v7.0. Note that Pyramix is not supported under 64bit OS.
  - Users upgrading from Vista or XP to Windows 7 must uninstall RTX Interval Zero Runtime prior to upgrading (from Windows Add or Remove Programs). Merging recommends that you proceed with a fresh OS install rather than Upgrade. See installation procedure at beginning of Release Notes.
  - Hyperthreading is supported for MultiCore processors only, since Pyramix V6.1, but Merging recommends that you disable the Hyperthreading for the moment.
  - We recommend that you do not use more than 65-70% of the Core resources, to avoid intense graphic refresh burst related problems. Three safe core zones have been set. Eventually this will be optimized further.
    - 0% to 65% Green zone (best performance)
    - 65% to 75% Orange zone (moderate risk)
    - 75% to100% Red zone (performance could be at risk if major screen redraws are initiated by the user).
  - If the Core indicator blinks (red), this will indicate a drop, only be concerned if the drop occurred during Playback/Mix down or record. To reset the Core drop simply do a Mouse click on the Core indicator, for more information please refer to the appropriate section in the User Manual. VST plug-ins users should consult the VST Core Load information also available in the User Manual.
  - External Insert plug-ins: The same input and output cannot be used in the External Insert plug-in and the Mixer at the same time, they are exclusive to either one.
  - MassCore: Core indicator will show a peak/overload after a save on large project or when rebuilding the Mixer (project open-close). Known as issue MT3113.
    Since MassCore is a Realtime engine users should mainly be concerned if the core peak shows up during realtime events (Play, Record, and Mixdown). To reset a Core peak simply click on the Core indicator.
  - The MADI 1 daughterboard is not supported in multi-board, neither in Mykerinos nor MassCore.

- **General Known Issues**

  - Windows XP user: Windows XP-SP3 must be installed in order to install Pyramix v7.0.

  - With the Release of version 7.0, new Pyramix systems will only be available in either Native or MassCore versions. Mykerinos Technology will continue to be used as I/O, but the DSP mixing power on the cards officially becomes legacy technology. It has been a good run for the Tri-Media Chips, whose life span has by now extended over more than 11 years, but it is time that we put them out to pasture. This doesn't mean that your Mykerinos Based systems will become obsolete as you can upgrade any Mykerinos system to MassCore without having to do anything but purchase a MassCore License *. And if you aren't still sure that you want/need to upgrade, then the Mykerinos based DSP will still happily work in Version 7 on an "as is" basis.
    * please consult the recommended minimum PC requirements for MassCore at http://www.merging.com/pages/pcconfig

  - Pyramix 7.0 projects are NOT compatible with the previous Pyramix Releases. In order to open such projects in an older Pyramix version please make sure that you perform the proper Save Special option. A Save Special "Save as Version 6.2" was added to the list.
    Warning: v7.0 Libraries format are not compatible with the previous Pyramix release. Save as previous version format will not be possible. A back up of the libraries .pml.6xx file should be available and can be renamed as .pml in order to be opened in an older Pyramix version (but will not take in considerations the modifications made to the libraries under the use of Pyramix v7).

  - Pyramix Native: The Direct Sound mode is no longer supported. We recommend to instead download and install the Asio4All driver (http://www.asio4all.com/)

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- The Virtual Tracks were removed from Pyramix 7.0. It is no longer possible for users to create them. Note that they are still supported when coming from older projects. As a replacement we recommend the use of the Automation Sub-Tracks from now on.

- Changing project sampling rate 1FS/DSD/DXD within the same Pyramix session can at times cause problem (Mixer stuck at wrong sampling rate).
  Workaround: launch back Pyramix.

- Final Check Metering: When running MassCore on more than one core, it is possible (though not always the case) that Final Check cannot monitor certain bus/stem (No metering, but it works again when selecting another bus)
  - Workaround 1: Do not use final check with more than one core.
  - Workaround 2: Add an effect (any effect will do, but you may prefer to pick one that doesn't modify the sound: phase oscillo, surround monitor…) on the bus that final check doesn't want to monitor.

- Low Memory Condition Warning:
  A warning informs users when the system is reaching Low Memory Conditions. In order to save a project under such conditions Pyramix will switch to Save to Disk mode as not enough memory might be available otherwise. This warning was added in order to prevent a Runtime Error on Save.

  Note that the Save time in Save to Disk mode in Low Memory Condition might take a longer time since the memory is being dumped to disk in order to allow the users to save their projects. We recommend afterwards to exit and restart Pyramix in order to free all memory.

  This Low Memory warning threshold can be adjusted by the user if one wishes it to come earlier or later. With every systems and workflows being different, Merging leave you the ability to adjust when the Warning will show up.
  Procedure:
  - Close Pyramix
  - Type regedt32 in the run command
  - In the registry go to HKEY_CURRENT_USER\Software\Merging Technologies\Pyramix\Settings\Save to disk threshold (this key will only appear if at least one save was made using that version)
  - Default value in Decimal mode has been set to 15
    - The higher the value is set, the earlier the Low Memory warning will come
    - The lower the value is set, the riskier it is for you to encounter a Runtime Error at save (previous Pyramix versions value would have had this value set to 0)

  Merging with this Pyramix v7.0 version has significantly reduced the memory consumption of Pyramix when confronted with the task of loading enormous libraries.
  For the long term, the move of our applications to a 64 bit operating system will provide a very solid platform to accommodate the ever growing project size requirements of some of our users.

- In playback loop mode, Pyramix and the Rewire client are known to be drifting when cycling through the loop (MT3919)
  Workaround: Make sure you work in Video frames. Go to the Profiling debug menu (at bottom of Pyramix GUI do a Mouse+Right Click) and use the Round Loops to Video Frame option

- Cannot use DiscWrite with Pyramix:
  Workaround: Re-install Pyramix (maybe run clean up after un-installing Pyramix) or Re-install the Gear driver. Prior to re-installing such drivers use the Gear Removal Utility below.
  Gear Removal Utility:
  http://www.gearsoftware.com/downloads.php?dir=updates/windows/drivers/&file=Driver_Remover.exe
  Find other Gear links that may be useful to determine if the drivers are installed and functioning correctly and other tips:
  Gear Driver Status:
  http://www.gearsoftware.com/wiki/index.php?title=Determining_if_GEARAspi_drivers_are_installed_correctly
  Gear Known Issues:

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http://www.gearsoftware.com/rss/GEAR-drivers-feed.php

- **Various Known Issues**
  - StripTools and BusTools GUI might be corrupted in display on the 1st one in line, under Windows 7. (MT3785)
    Workaround: Rebuilding the Mixer should refresh the effects accordingly
  - Record: A small pause can occur after the first recording of a session. (MT3827)
  - Rendered or converted clips might not appear in Media Manager unless a refresh is made. MT3807.
  - Copy Media from Timeline to Media Manager or Library (paste with media) not feasible. (MT3997)
  - Timeline and Realtime Sampling Rate Conversion: clicks may occur when doing playback or mixdown in a region where 2 overlapping clips reference the same media with different sampling rate than project.
    Workaround: Convert those Medias to the project's sampling rate, prior to using such a workflow
  - Old quickmount files could make Pyramix crash when playing MXF (MT3608)
    Workaround : Delete old quickmount files and let Pyramix regenerate them.
  - MT Asio Bridge not working with some third party applications (e.g. Reason) (MT3596)
  - StripTools: not always opened from "Fx" track Header. (MT3764)
    Workaround: Scroll through the StripTools display once
  - Archive or Save As does not re-zip project .pmx and ,pml files together. (MT3809)
  - A Timeline without automation (Automation status in Play or Write), can cause the volume and mute of the strips connected to a VCA group to reset to zero. (MT3936)
    Workaround: Begin automation with a Snapshot
  - Automation in Fixed Cursor can cause bad GUI display (automation lines) during playback.
    Workaround: Set Cursor to a different playback mode
  - Recording: Red recording block can disappears during recording on some configuration.
    Note: The media will not be affected by this display problem. (MT3577)
  - Virtual Transport: VT missing Icons for DSplayer and Midi Sync clients. (MT3480)
  - OMF Import: media folder not mounted after import. (MT3991)
    Workaround: Use Media Menu Auto-Mount option to get warning if so
  - GPI/O need more time to receive command – less responsive (MT3593)
    Workaround a previous dll version can be used, contact support@merging.com
  - Ogg files with SRC on can make Pyramix crash under Windows XP (MT3569)
    Workaround: disable Real Time Sampling Rate Conversion
    (Settings>Application>Playback/Record) or convert file
  - ADR keyboard is by default disabled. To enable it you must download and run the proper Registry Key. http://download.merging.com/beta/AssociatedTools/ADRKeyboard.zip
  - Multiple projects opened simultaneously: We do not recommend users to have more than 8 project opened at the same time (due to GDI object limitation).
  - Waveforms: Since Pyramix V6.1 the new waveform file format is PK2, such a PK2 waveform file cannot be read in previous Pyramix version and in such a case waveforms will have to be re-generated. On the other side previous waveforms format PK files (Pyramix V6.0 and older) are compatible with Pyramix V6.1 & V6.2 & V7.0.
  - The Render Tool will create a temp file for the CEDAR and Nova v0.99 in C:\ Be aware that Merging cannot change the Temp file patch of such third party Render.
  - Interchange: AAF non-embedded export to Pro Tools 7x could generate « Could not complete your request because an unexpected error happened while trying to find an audio media file's format" error. We recommend to use AAF Embedded when exporting to ProTools 7. ProTools 8 is known to be working in such case.

- Third Party Plug-ins
  - Algorithmix ReNOVAtor for Pyramix: We recommend users to download the latest version available on their site. www.algorithmix.com
  - Cedar: Install issue on certain Vista configurations where you might not see the Cedar plug-ins after the installation process. The problem is due to erroneous referencing of the license manager utility on a vista machine. Please contact Merging Support or Cedar Support for all details and workaround.
  - Cedar: Some toolbar icons might be missing if on a Windows XP system. Workaround: Disable the Skin option in Pyramix>settings>Desktop Layout.
  - Altiverb: We recommend users to download the latest version available on the Audio Ease site.

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- UAD2: Certified as working with Pyramix, see forum known issues http://forum.merging.com/viewtopic.php?f=26&t=6798

- MP3, AC3 Files and other compressed formats support:
  - Default Windows installation should handle most of the common compressed file formats. In case of problem with the default Widows Installation, Merging has a list of recommended third-party codecs but will not certify any codecs. http://forum.merging.com/viewtopic.php?f=18&t=5755
  - Vista users warning: UAC (User Account Control) can be blocking the "Essentials Codec Pack" at startup. If this is the case, you should see once logged into your session at the windows bottom bar a "Windows has blocked some programs" message. You can then unblock it from there or deactivate UAC from the Windows Control Panel.
  - Install the latest Flac distribution certified in Program Files/FLAC, see download link below http://sourceforge.net/projects/flac/files/flac-win/flac-1.2.1-win/flac-1.2.1b.exe/download Pyramix will use this distribution to decompress all .flac files

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Pyramix v7.0 Tips

Pyramix v7.0 Media Manager and Library recommendations and changed behaviors

- The Database Location path is set under Settings>Application>Location>Default Database Location. Otherwise the database path will be C:\Documents and Settings\<User Name>\Application Data\Merging Technologies\Pyramix
- For better performance Merging strongly recommends that you move the Database location on your fastest system Drive. SATA2 - 7200 rpm Disks are recommended and not necessarily C:\OS default drive (as a drive with less activity and more speed should be performing better)
- **Save**:
  - V7.0 will speed up your Save times if Saves are done on a performing Disk (e.g. SATA2 7200 rpm). Saving on old Disks (e.g. IDE) or if saving on the OS Disk itself (often very busy with other tasks) could slowdown your Saves times.
  - A registry is available to get back to v6.2 Saving mode. This will actually dictate whether or not the libraries are saved in 7.0 format (applies only to the .pml within the .pmx).
    1. Launch regedt32 from Windows "Run"
    2. Go to HKEY_CURRENT_USER\Software\Merging Technologies\Pyramix\Libraries
    3. Create a DWord (32bit) Key and name it *SavePMXLibrariesAsDBLibrary*
    4. If Key value is set to 1 or not present: will actually apply the actual 7.0 Save
    5. If Key value is set to 0: libraries in the 7.0 PMX (.pml only) are saved in v6.2 mode
  - However, you must be aware of the following drawbacks in v6.2 mode:
    - When opening the "modified"-style pmx, the pml embedded will be reconverted. This can lead to some extra time spend within opening.
    - Depending on your project type and size, "modified"-style save can become slower that "standard"-style v7 save.
- Merging recommends that your Disk have the indexing disabled and that you make sure that the Power Management is set accordingly for better performance.
  - Disable File Indexing (XP + Vista + 7):
    1. Open "My computer"
    2. Right click on each drive and select "Properties" from dropdown menu
    3. Un-Check the indexing check box
  - Verify the Power Management:
    Go under Windows Control Panel and open Power options
    - XP Users: Set "Power Scheme" to "Always On" and set Turn off Hard disks to "Never" and System Standby to "Never"
    - MassCore users Under Vista & 7: Power plan should be "RTX – recommended"
    - Native Users: Make sure you select the "High Performance" power plan
- For ultimate performance Merging recommends that you (not mandatory)
  - Set your Antivirus to off while running Pyramix
  - Set Windows Automatic-Update to "notify me"
  - Avoid active internet connection while running Pyramix
- Keeping Mounted Folders when closing and restarting Pyramix can speed up your workflow: Set option under All Settings>Application>General> "Mount all Media folders that were Mounted at previous Application Exit"
- You can clear the History of the Media Manager under the Media Manager>Media Folder menu
- Merging recommends Pyramix users save their project on a Disk were no OS resides for better performances (C:\ not recommended).
- Since Pyramix 7, the Composition Library is not longer present. We've made the decision to do so to preserve editing interactivity.
  We recommend 2 workflows to workaround this:
  - A) Toggle the Select Used Media view to list the media by location, based on timeline selection. You can search and drag & drop from this window back into the timeline. You can also save the Select Used Media content to a Library that can be re-opened as a library.
  - B) Use the EDL view since it has been improved in Pyramix 7 and it should be functional and reliable.
- Default library: The default library should be present but will be empty by default, until you add something to it
- Global Libraries – Default Library: The global library should appear empty by default. If there's a Default Library in it, it could come from the last closed session.

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